

<110> Nippon Institute for Biological Science

<120> novel plasmid vector

<130> PCTF0001-0

<150> JP, Japanese Patent Application No. Hei 11-158351

<151> 1999-6-4

<160> 13

<210> 1

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including 3' region of U3 and VspI restriction enzyme site to multiply RSV LTR.

<400> 1

ggcattaaatg tagtcttatg caataactcct g 31

<210> 2

<211> 40

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including 5' non coding region of p19 gene, HincII, EcoRV and BgIII restriction enzyme site to multiply RSV LTR and downstream region of LTR.

<400> 2

gttaacgata tcagatctgc ttgatccacc gggcgaccag 40

<210> 3

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including 5' region of RSV integrase gene and BamHI restriction enzyme site to multiply RSV integrase gene.

<400> 3

ttggatccat gcccttgaga gaggctaaag atcttc 36

<210> 4

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including 3' region of RSV integrase gene, polyA signal to multiply RSV integrase gene.

<400> 4

tttatttaa ctctcggtgg cagcaagggt gtc 33

<210> 5

<211> 29

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including 5' region of U5 and VspI restriction enzyme site to multiply RSV LTR.

<400> 5

ggcattaaatg aagcccttctg cttcatca 29

<210> 6

<211> 51

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including 3' region of RSV integrase gene, polyA signal, nuclear localization signal of SV40 large T antigen to multiply RSV integrase gene.

<400> 6

tttatttaa accttccctt tcttcttagg actctcggttg gcagcaagggt t 51

<210> 7
<211> 858
<212> DNA
<213> Rous sarcoma virus

<220>
<221> TATA signal
<222> (84)...(90)
<221> polyA signal
<222> (107)...(112)
<221> TATA signal
<222> (431)...(437)
<221> polyA signal
<222> (454)...(459)
<223> A part of circular form of RSV DNA, tandem repeat LTRs and adjacent non coding region.

<400> 7

acgatcggtgc cttatttagga aggcaacaga cgggtctaac acggattgga cgaaccactg 60
aattccgcat tgcggagata ttgtatttaa gtgcctagct cgataacaata aacgccatii 120
taccattcac cacattggtg tgcacctggg ttgtatggctg gaccgttgtat tccctgacga 180
ctacgagcac atgcatgaag cagaaggctt cattaatgtt gtcttatgca atactccgtt 240
agtcttgcaa catgtttatg taacgatgag tttagcaacat gccttacaag gagagaaaaag 300
gcaccgtgca cgacgattgg tggaagtaag gtggatgtat cgttaggtacg atcgtgcctt 360
attaggaagg caacagacgg gtciaacacg gatggacga accactgaat tccgcattgc 420
ggagatattt tatttaagtg cctagctcga tacaataaac gccatitac cattcaccac 480
attgggtgtgc acctgggttg atggctggac cgttgattcc ctgacgacta cgagcacatg 540
catgaagcag aaggcttcat ttggtgaccc cgacgtgtac gttagggaat agtgggtcggc 600
cacagacggc gtggcgatcc tgccctcattc cgtctcgctt attcggggag cggacgatga 660

cccttagtaga gggggctgcg gcttaggagg gcagaagctg agtggcgtcg gagggagctc 720
tactgcaggg agcccagata ccctaccgag aactcagaga gtcgttgaa gacgggaaga 780
aagccccacg actgagcggt ccacccagg cgtgattccg gttgcctgc gtgaccctgg 840
tcgccccgtg gatcaagc 858

<210> 8

<211> 972

〈212〉 DNA

<213> Rous sarcoma virus

220

<221> CDS

<222> 1...972

/note="precursor integrase or p36 protein"

〈221〉 CDS

<222> 1...858

/note="mature integrase or p32 protein"

<400> 8

cgtggigaaa acacgaaaac accgatacaa aaaca^tgga gacctaccgt tcttacagaa 660
ggaccccccgg ttaaaaatacg aatagagaca ggggagtggg aaaaaggatg gaacgtgc^tg 720
gtctgggac gaggttatgc cgctgtgaaa aacagggaca ctgataaggt tatttggta 780
ccctctcgaa aagttaaacc ggacatcacc caaaaggatg aggtgactaa gaaagatgag 840
gcgagccctc ttttgcagg catttcgtac tggataccct ggggagacaa gcaagaagga 900
ctccaaggag aaaccgctag caacaagcaa gaaagacccg gagaagacac ccttgctgcc 960
aacgagagtt aa 972

<210> 9

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including 5' region of GFP gene and a part of NheI restriction enzyme site to multiply GFP gene.

<400> 9

ctagcgctac cggtcgccac c 21

<210> 10

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including antisense sequence of GFP ORF to multiply a part of GFP gene.

<400> 10

gttgccgtcc tccttgaagt 20

<210> 11

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including U5 region LTR sequence to multiply a part of integrated plasmid vector.

<400> 11

ttggtgtgca cctgggttga t 21

<210> 12

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including 5' end of GFP ORF sequence to multiply a part of GFP gene.

<400> 12

atggigagca agggcgagga gctgttcacc ggggtg 36

<210> 13

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Designed PCR primer including a part of GFP ORF sequence to

multiply a part of GFP gene.

<400> 13

gtcgagctgg acggcgacgt 20